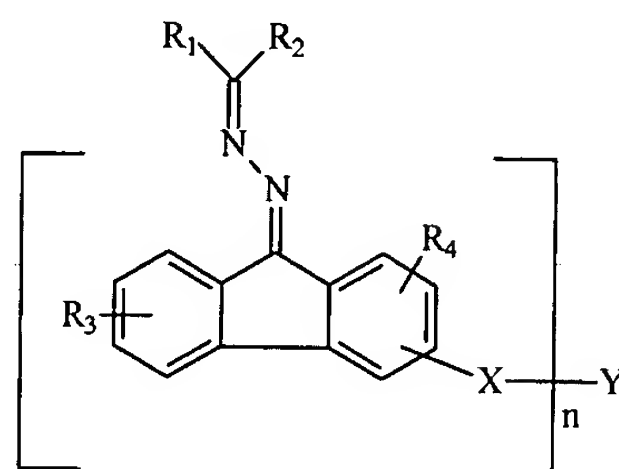


## ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT MATERIAL WITH FLUORENONE AZINE GROUPS

### Abstract of the Disclosure

Improved organophotoreceptor comprises an electrically conductive substrate and  
5 a photoconductive element on the electrically conductive substrate, the photoconductive  
element comprising:

(a) a charge transport material having the formula



where n is an integer between 2 and 6, inclusive;

10  $R_1$  and  $R_2$  are, independently, H, an alkyl group, an alkaryl group, a heterocyclic  
group, or an aryl group;

$R_3$  and  $R_4$  are, independently, H, halogen, carboxyl, hydroxyl, thiol, cyano, nitro,  
aldehyde group, ketone group, an ether group, an ester group, a carbonyl group, an alkyl  
group, an alkaryl group, or an aryl group;

15 X is a linking group having the formula  $-(CH_2)_m-$ , branched or linear, where m is  
an integer between 0 and 20, inclusive, and one or more of the methylene groups can be  
optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group,  
urethane, urea, an ester group, a  $NR_5$  group, a  $CHR_6$  group, or a  $CR_7R_8$  group where  $R_5$ ,  
 $R_6$ ,  $R_7$ , and  $R_8$  are, independently, H, an alkyl group, an alkaryl group, a heterocyclic  
20 group, or an aryl group; and

Y is a bond, C, N, O, S, a branched or linear  $-(CH_2)_p-$  group where p is an integer  
between 0 and 10 and where one or more of the hydrogen atoms in the  $-(CH_2)_p-$  may be  
optionally removed to provide bond positions to enable n to have a higher value than 2,  
an aromatic group, a cycloalkyl group, a heterocyclic group, or a  $NR_9$  group where  $R_9$  is  
25 hydrogen atom, an alkyl group, or aryl group

Y comprises a bond, C, N, O, S, a branched or linear  $-(CH_2)_p-$  group where p is an  
integer between 0 and 10, an aromatic group, a cycloalkyl group, a heterocyclic group, or

a  $\text{NR}_9$  group where  $\text{R}_9$  is hydrogen atom, an alkyl group, or aryl group, wherein Y has a structure selected to form n bonds with the corresponding X groups; and

(b) a charge generating compound.

Corresponding electrophotographic apparatuses and imaging methods are  
5 described.